

TUTA Series
GSM REMOTE CAMERA

User Manual

Manual version 2.3

TUTA Series GSM Remote Camera

Thank you for purchasing the TUTA camera. This camera is a remote controlled image-capturing device consisting of a microphone, infrared lights and a high quality 300,000-pixel camera lens. The TUTA camera can capture images according to a pre-programmed remote command and then send it to your multimedia messaging (MMS) enabled mobile phone with color display, or to an e-mail address. You can control and change the camera settings via SMS command.

The MMS sent by the TUTA camera can be viewed by using your mobile phone. You also can opt to view a slide of consecutive photos taken by the GSM Remote camera.

The built-in high-light infrared LED's allows the camera to capture clear images, even in dark environment.

The TUTA camera is compatible with standard 433MHz wireless sensors such as panic button, PIR-, door magnet- and smoking sensors.

As soon as the wireless sensor triggers the camera alarm, you or your families and/or your guards can thus receive the alarm message via SMS, MMS or standard calls, according to the pre-programmed.

However, the camera can perform its duty well without any wireless sensor too. The TUTA camera has a motion detective function and an integrated infrared body detector. It will therefore detect any unauthorized entry into your house and notify you via SMS, MMS, standard calls or E-mail.

All services and functions need to be supported by the GSM network and a SIM card.

This brochure suits for TUTA-B1 model.

Details of the functioning and advanced operation of this camera are described in this instruction manual.

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WARNING

1. Purchase a GSM SIM card (mobile phone card) from GSM network service and install it in the camera. This SIM card number is referred as TUTA camera number on this brochure.
2. The user needs to activate the MMS function and Caller ID Presentation function of SIM card, and deactivate PIN code of the SIM. Contact with GSM network service for support.
3. Change the original password at the beginning use. Be sure to keep the password and SIM card number secret. Do not disclose this information to anyone other than the authorized users in order to ensure your safety.

For your safety

- This product is a wireless signal transmission device. Keep it away from electronic equipment likely to interfere with the wireless signals, in order to avoid signals interference.
- Switch off your TUTA and mobile phone when entering areas marked "Explosive", "Might explode", "Closed wireless transceiver devices" etc.
- Do not cast this product in a fire, as this may cause the battery to explode.
- This product should only be operated from power approved by the product manufacturer. The use of any other types of power may damage the product.
- Keep the product and its accessories out of the children reach.

Exception clause

1. We operate on a policy of continuous development. We reserve the right to make changes and improvements to any of the products described in this document without prior notice.
2. For the latest product information, please visit: <http://www.i-tuta.com>. We don't guarantee for the document veracity, reliability or any content except regulate in proper laws. Including no guarantee for product suitable market or suitable area promise.
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Chapter 1 Features and accessories

1.1 Main function

- This product uses a GSM SIM card. It can send multimedia messaging (MMS) images to MMS enabled mobile phones with color display or to an E-mail address.
- Remote control: Control and configure the camera with short messages (SMS) commands from a mobile phone.
- Real time audio: call the camera number (SIM card) to listen in live voice.
- Motion detection: Detect and notify authorized users of any motion in the monitoring area(s).
- Integrated infrared body detector.
- Sensor detection: Allowed to load up to 15 sensors such as door magnet sensors, infrared body sensors, smoke sensors, gas sensors, panic button etc. Any activated sensor will notify the authorized users via SMS.
- Infrared light: The built-in high-light infrared LED's allows the camera to capture clear images, even in dark environments or areas with insufficient lighting.
- High quality camera: 300,000 pixel CMOS camera in order to obtain a clear image via MMS.
- Send images to mobile: The camera will send MMS images to your mobile. Therefore you can check on the monitored areas at any time and anywhere GSM/GPRS network coverage and MMS service coverage.
- Send images to E-mail: The camera can send images to preset available E-mail address.
- Multi-mode alarm: The camera can send alarm messages via SMS, MMS, E-mail or standard phone call.
- Fixed time monitor: The monitoring schedule can be set with multiple time intervals.
- Easy installation: Wireless connection. The camera can be installed at any

place required by the authorized user.

- Accessories: Includes 2 remote controls each consisting of a panic button as well as buttons to arm or disarm the camera.
- Built-in lithium battery: Rechargeable battery ensures operation of TUTA camera amid external power failures.
- Downloadable user manual: This manual can be downloaded at any time via SMS command.

1.2 Package contents

- | | |
|----------------------|---------|
| 1. GSM remote camera | 1 unit |
| 2. Power adapter | 1 unit |
| 3. Remote control | 2 units |
| 4. User manual | 1 unit |

1.3 Products features

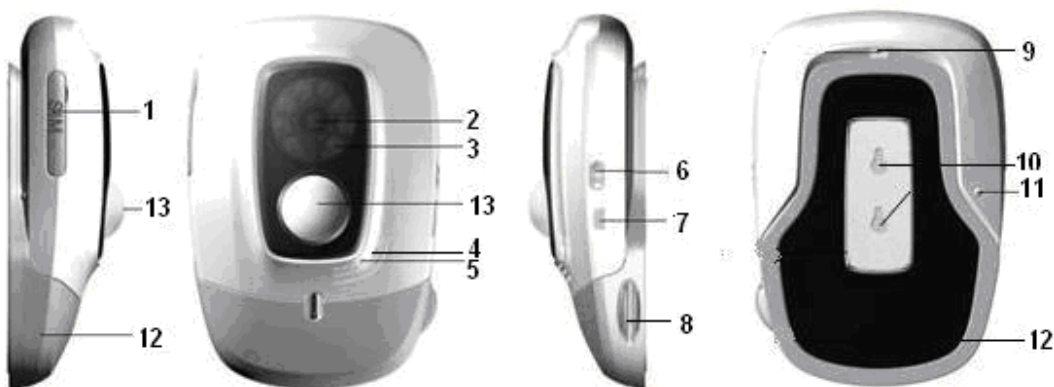


Figure 1: TUTA camera instructions

- | | |
|---------------------------------|-------------------------------|
| 1. SIM card Slot (rubber cover) | 7. Power Interface (Mini USB) |
| 2. Camera | 8. Line Holder |
| 3. Infrared lights (8 pcs) | 9. Slot buckle |
| 4. Microphone | 10. Hanging hole |
| 5. Indicator | 11. Setting key |
| 6. Power switch | 12. Base board |
| 13. Infrared body detector | |

Tip: Keep the camera lens clean to insure best imaging quality.

1.4 Remote control Instruction

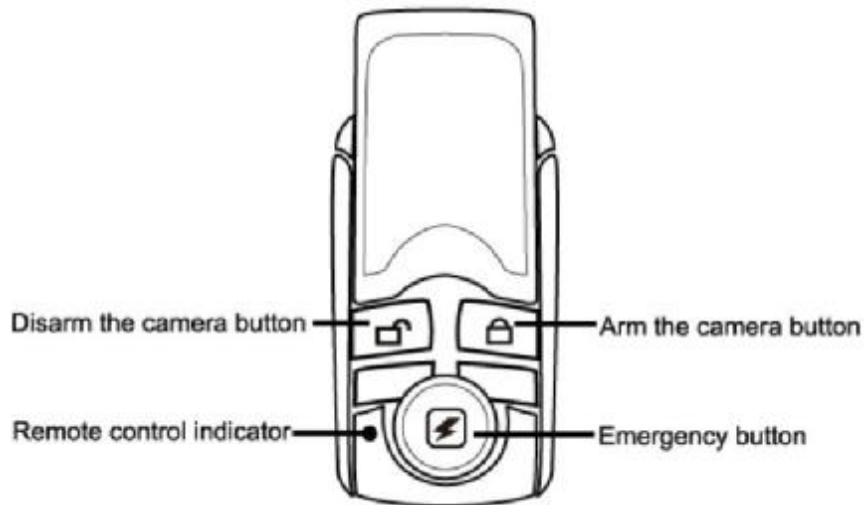


Figure 2: Remote control Instruction

1. Disarm the camera button
2. Remote control indicator
3. Arm the camera button
4. Emergency button

Battery: There is battery holder on the rear of the remote control. It needs one 3.0Voltage CR2032 battery. When this battery is running out of power, TUTA camera will emit “Beep, beep” warning tone and then send a SMS notification message to **Master** user.

1.5 Light indicator

Color	Action	Status
Red	Flash slowly	Searching the network.
	Flash quickly	Sensor alarm, motion detection alarm, infrared body detector alarm.
	Constant Light	Not installed SIM card, or the remote camera damaged.
Green	Constant Light	Armed status.
	Flash twice per 2 seconds	Arming command received. TUTA camera will enter arming mode after 20 seconds.
		The camera is at the alarm-suspension situation.
	Flash slowly	Disarmed status.
	Flash quickly	Processing data.
	Light 2 seconds	Successfully reset factory setting, or loading sensor.
Orange	Flash	Loading remote control status.
Red and Green	Two color lights alternately	Loading sensor

Note: Slow flash 1 time per second, quick flash 2 times per second.

3. Under normal working conditions, the indicator can be closed absolutely. Refer to Chapter 5.3
Turn on/off LED indicator on the camera.

Chapter 2 Installation

2.1 Install the SIM card

- Remove the rubber cover from the left side of TUTA camera.
- Open the SIM card slot by pressing the small dot beside the SIM card slot with the tip of a pencil, and pop open the slot.
- Insert the SIM card into the slot.
- Push the slot back into place.
- Put the rubber cover back in its place.

2.2 Extending the camera's base board

- Hold the base of TUTA camera and pull the top part and the bottom part (base) in opposite directions (i.e. away from each other).
- Then the slot buckle will be pulling open.
- The head of TUTA camera can now be moved freely and located at any direction.

2.3 Connecting to power adapter

- Connect the adapter to an AC power, and connect the mini-USB plug to the power interface of the TUTA camera .(See Figure 1 TUTA camera instruction)
- This camera has a built-in rechargeable Lithium battery.
- The camera will notify the user when the power changes. For example, if the power adapter is disconnected or failure of the AC power occurs, TUTA camera will notify the user "External power cut. The device is operating on battery."
- If TUTA camera is again connected to the external power, or the AC power is available again, the notification will be sent to the user, i.e." The device is now resuming the use of external power source."
- **Low battery:** The configure setting can not be saved when TUTA camera is operating on low battery.

2.4 Mount the TUTA camera

TUTA camera can be mounted on a wall (vertically with the screws) or put down on

any suitable horizontal surface.

How to choose the Installing place:

- In order to capture better image quality, avoid any areas where bright light will be irradiated directly into the lens of the camera on the camera.
- In order to avoid backlighting photography, it is suggested that the camera is located at the place where can look down the monitoring place with the minimum angel 30° .
- The GSM network's signal strength may affect the image, live voice quality and MMS transmission speed. Therefore, upon installation, the user should ensure that TUTA camera is located in an area with a strong network signal.
- After installation, the user should perform a test-run by taking several images and sending it to the user's mobile phone. This allows the user to check the image quality of the camera. The position of TUTA camera can then be adjusted until a satisfactory image quality level is reached.

2.5 Power on/ off

Power on:

Operation	Indicator light	Status
Turn the power switch to "On" position.	Red light is on for 3-5 seconds.	
	Red light flashing slowly for about 35 seconds.	
	A "Beep..." tone will be heard.	
	Green light flash slowly, or green light be on constantly.	TUTA camera is disarmed, or armed.

Power off:

Turn the power switch to downside "Off" position.

Chapter 3 Define the user

3.1 User authorization level

There are three levels, each with a different authorization level, namely **Master**, **Families** and **Guest**.

Table 3.1 the difference in authority for Master, Families and Guests users:

User Type		Master	Families	Guests
Functions				

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Functions \ User Type		Master	Families	Guests
Change authority, password		YES	NO	NO
Automatic Alarm	Receive SMS	YES	NO	NO
	Receive MMS	YES	NO	NO
	Receive alarm calling	YES	YES	NO
	Get images by E-mail	YES	NO	NO
Emergency alarm	Receive SMS	YES	NO	NO
	Receive MMS	YES	NO	NO
	Receive emergency calling	YES	YES (Only emergency number)	
Call the camera to listen in live voice		YES	YES	NO
Get work status, images, help and instruction by sending SMS command		YES	YES	YES(Password)
Get images by E-mail		YES	YES	NO
Set remote camera by SMS command		YES	YES	NO
Add, modify or delete sensor		YES	YES	NO
Camera language setting		YES	NO	NO
Set infrared body detect function		YES	YES	NO

% Note

- Any MMS enabled mobile phone can receive the images captured by TUTA camera by sending SMS command with password.
- Any SMS enabled mobile phone can control TUTA camera with the password command.

All the settings of TUTA camera can be set or adjusted via a SMS command.

About the SMS Command:

- Master** and **families** users' SMS command format: #code#content#.
- Guest** users' SMS command format: #code#password#content#.
- The password must be a four-digit number.
- The original password is 1234.
- The maximum digits that are allows for the phone number is sixteen.
- TUTA camera will reply to the user after it receives the SMS command.

% Note

- The “#” symbol must not be ignored when typing an SMS command.
- No allow any space within the commands.

3.2 Define master user to start the camera

In order to enable all the functions on the camera, the **Master** user must store his/ her mobile number in the camera’s memory. Only one **Master’s** mobile number (**Master** number) is allowed for a camera.

3.2.1 Add a master number to the camera

Authority: **Master** user.

& Description

If TUTA camera is being used for the first time, or TUTA camera has been reset, the master user’s number must be programmed into the camera, in order to ensure activation. The following methods can be used:

I Method

The user must edit and send the following SMS to camera via his/her mobile phone (the phone number will be the **Master** number) in order to:

Add a master number to the camera: #00#+CountryCodeSIMNumber# (1)

- The **CountryCodeSIMNumber** should be the SIM card number which be inserted into TUTA camera. The **+CountryCode** means the access code for country calling. For example:

In Germany, if the SIM number inside the TUTA camera is 01712345678, then this command should be #00#+491712345678# (+49 is the country code of Germany, 1712345678 is SIM number with no trunk prefix 0).

J Successful SMS reply

Welcome to the GSM Remote Camera. Your password is 1234.

L Failed SMS reply

If a user tries to activate TUTA camera again, TUTA camera will send a notification via SMS stating “Master user already exists.”

3.2.2 Change the master number

Authority: **Master** user

I Method

The user sends following SMS message in order to:

Change the master user's number: #14#*NewMasterNumber*# (2)

J Successful SMS reply

New master number is *****.

Then the old master user's number will not be able to control TUTA camera anymore.

3.2.3 Change password

Authority: **Master** user.

& Description

In order to ensure your privacy and safety during the use of this camera, change the password once TUTA camera is being used.

I Method

The user sends following SMS message in order to:

Change the password: #04#*oldpassword*#*newpassword*# (3)

- The **password** is a four digit number.
- The original **password** is 1234.

J Successful SMS reply

The password has been successfully changed to ****.

L Failed SMS reply

If a user, other than the master user, attempts to change the password, a notification message will be sent via SMS: "Sorry, you are not authorized to use this command."

3.3 Define family user

Family users have the authority to listen in on the camera, receive images, load the sensors and remote controls to the camera, and receive notification when motion detection activated. The **family** user's mobile numbers are set by the **Master** user. The **family** users should remember and safeguard the camera's SIM number.

3.3.1 Add a family number

Authority: **Master** user.

I Method

The user sends following SMS message in order to:

Add a family number: #06#*FamilyNumber*# (4)

Add several family numbers: #06#*FamilyNumber*#...#*FamilyNumber*# (5)

- Up to 10 *family* users' number can be stored on one camera.

J Successful SMS reply

The family number has been added successfully.

3.3.2 Check family user's number

Refer to Chapter 4.15 Check status.

3.3.3 Delete family number

Authority: **Master** user.

I Method

The user sends following SMS message in order to:

Delete a family number: #113#*FamilyNumber*# (6)

Delete several family numbers simultaneously: (7)

#113#*FamilyNumber*#...#*FamilyNumber*#

Delete all family numbers: #113# (8)

J Successful SMS reply

Family number deleted successfully.

L Failed SMS reply

Failed to delete family number.

3.4 Define guest user

Any selected person can operate in the **Guest** category if they know the password and the SIM number. The **Guest** user(s) can then use their mobile phones to send a SMS command including password to TUTA camera in order to obtain an MMS image.

3.5 Define emergency number

The Emergency Number is the phone numbers which TUTA camera will dial when the emergency button of the remote control is pressed. Emergency numbers could be the

telephone numbers of guards, family numbers, police etc.

3.5.1 Add emergency number

Authority: **Master** user.

& Description

- The **master** user's number default to be emergency number.
- When the Emergency button is pressed, TUTA camera will automatically dial the **Master** user's number, followed by the other pre-set emergency numbers (the default mode is **dial phone** mode).
- Each camera can have up to 9 emergency numbers. (Not including the **Master** user's number).

I Method

The user sends following SMS message in order to:

Add single emergency number on the camera: (9)

#106#**EmergencyNumber**#

Add several emergency numbers on the camera: (10)

#106#**EmergencyNumber**#...#**EmergencyNumber**#

- The **EmergencyNumber** is the phone numbers.
- Up to 9 emergency numbers can be stored on one camera.

J Successful SMS reply

Added emergency number successfully.

L Failed SMS reply

- If 9 emergency numbers (the maximum amount per camera) are used on TUTA camera and the master user attempts to add another one, the following notification message will be sent via SMS: "The Emergency numbers are full. Please delete old numbers."
- If an existing number is being added again, the following notification message will be sent via SMS: "Emergency number already exist."

3.5.2 Delete emergency number

Authority: **Master** user.

I Method

The user sends following SMS message in order to:

Delete an emergency number: (11)

#107#EmergencyNumber#

Delete several emergency numbers: (12)

#107#EmergencyNumber#...#EmergencyNumber#

Delete all emergency numbers: #107# (13)

J Successful SMS reply

Emergency number successfully deleted.

3.5.3 Check emergency number

Refer to Chapter 4.15 Check status.

Chapter 4 Basic use and settings

4.1 Network parameter settings

Authority: **Master** user.

% Note

In general, the user does **not** need to set the network parameter before use. The correct parameters have been set by the manufacturers according to every country's respective GSM provider.

& Description

If TUTA camera is unable to send MMS messages continually, The GSM provider's MMS parameter must be added onto the camera. After successful settings, the camera will automatically choose WAP or HTTP to send MMS message.

İ Method

The user sends following SMS message in order to:

Set MMS center: #124#MMScenter# (14)

- The **MMScenter** should be the MMS center address of GSM provider. For example: #124#http://mmsc.monternet.com#

Set APN parameters: (15)

#125#GatewayIP#WAPGatewayPort#

HTTPGatewayPort#APN#APNusername#APNpassword#

For example: #125#10.0.0.172#9201#80#cmwap#wap#wap#

J Successful SMS reply

PAR:*****.

4.2 Capture images

Authority:

Master/ family / guest send SMS to the camera to get the MMS image or send the image(s) to an appointed mobile or E-mail address.

Master/ family member call the camera to get the images.

Master/ family send SMS command to the camera to send MMS image to an E-mail address (Need to pre-set E-mail address).

4.2.1 Capture one image and send to the user mobile

Authority: **Master**, **family** and **guest** users.

I Method

Method 1:

- **Master** or **family** user calls the camera and hand up upon hearing the ringing tone (within 5 seconds).
- TUTA camera will reply SMS notification: "Image capturing request received. The camera is busy sending the MMS messages."
- The user will then receive the MMS message momentarily.
- The guest users are unable to capture an image by using method 1. If the guest users call the camera, it will neither send a notification message nor an MMS message.

Method 2:

The user sends following SMS message in order to:

Capture one image and send to the user mobile:

For master and family users: #03# (16)

For guest users: #03#password# (17)

4.2.2 Capture images and send to the user's mobile

Authority: **Master**, **family** and **guest** users.

I Method

The user sends following SMS message in order to:

Capture images and send to the user mobile:

For **master** and **family** users: #03#ImageQuantity# (18)

For **guest** users: #03#Password#ImageQuantity# (19)

- **Image quantity** should be in the range of 1-8 when the image size is set at 160×128 or 320×240 (See 5.1.1 image size.) The default image size is 320×240(QVGA).
- **Image quantity** should be in the range of 1-2 when the image size is set at 640×480.

J Successful SMS reply

Your request received, TUTA is sending the MMS image.

- The user will then receive the MMS message momentarily.
- The file format of the sent MMS images is: "Model-Time.jpg". For example, a file with name of TUTA-094843.jpg means the image is captured with a TUTA camera at 9:48:43AM.
- If a sent MMS file has several sequential pictures, the size of the pictures is pre-set by user (See 5.1.1 image size.). The interval between the pictures is default 0.5s and can be pre-set by user (See 5.1.3 image interval).

4.2.3 Capture images and send to user's E-mail address

Authority: **Master** and **family** users.

& Description

If the master or family user wishes to send the images to his/her E-mail address, the E-mail address must be set at first. See chapter 4.3 E-mail settings for more information regarding this function.

I Method

The user sends following SMS message in order to:

Capture image(s) and send to pre-set E-mail: (20)

#03#ImageQuantity#1#

- **Image quantity** should be in the range of 1-8 when the image size is set at 160×128 or 320×240.
- **Image quantity** should be in the range of 1-2 when the image size is set at 640×480.

J Successful SMS reply

Your request received, TUTA is sending the MMS image.

4.2.4 Capture images and send to an appointed mobile or E-mail address

Authority: **Master**, **family** and **guest** users.

I Method

The user sends the following SMS message in order to:

Capture image(s) and send to appointed mobile or E-mail address:

For **Master** and **family** user: #30#**NumberOrEmail**#**ImageQuantity**# (21)

For **Guest** user: #30#**Password**#**NumberOrEmail**#**ImageQuantity**# (22)

- **NumberOrEmail** should be the mobile phone number or E-mail address which the user appointed to send image.
- **Image quantity** should be in the range of 1-8 when the image size is set at 160×128 or 320×240(The default image size). See 5.1.1 image size.
- Image quantity should be in the range of 1-2 when the image size is set at 640×480.

J Successful SMS reply

Sending to **** with * pictures.

- The file format of the sent MMS images is: "Model-Time.jpg". For example, a file with name of TUTA-094843.jpg means the image is captured with a TUTA camera at 9:48:43AM.
- If a sent MMS file has several sequential pictures, the size of the pictures is pre-set by user (See 5.1.1 image size). The interval between the pictures is default 0.5s and can be pre-set by user (See 5.1.3 image Intervals).

4.3 E-mail settings

% Note

This function should be supported by the local network provider. Please contact your local network provider for the details concerning this function.

4.3.1 Add/ modify an E-mail address

Authority: **Master** and **family** users.

& Description

- Each user number can be set only one E-mail address. If more than one E-mail

address is set onto one user number, TUTA camera will only recognize the E-mail address put in the last.

- If the user wishes capturing an image and sending to his/her E-mail address, see 4.2.3 capture images and send to user's E-mail address.
- If the user wishes TUTA camera sending the alarm image to his/her E-mail address, see 5.2.10 MMS notification to pre-set E-mail address.

Method

The user sends following SMS message in order to:

Add/modify an E-mail address: #108#*EmailAddress*# (23)

J Successful SMS reply

Email address: *****

4.3.2 Delete all E-mail address(es)

Authority: **Master** user.

Method

The user sends following SMS message in order to:

Delete all E-mail address: #109# (24)

J Successful SMS reply

E-mail addresses deleted successfully.

4.4 Timing send images to mobile

Authority: **Master** user.

4.4.1 Enable timing sends MMS images

Method

The user sends following SMS message in order to:

Enable timing sends MMS images: #115#1# (25)

J Successful SMS reply

Set timing to send MMS activated.

4.4.2 Set time period to send MMS images

Method

The user sends following SMS message in order to:

Set time period to auto-send MMS image: (26)

#116#WorkDay#StartTime1#EndTime1#IntervalTime1#...#StartTime3#EndTime3#IntervalTime3#

- Max allow 3 periods per workday. Each period time should set by start time, end time and interval.
- **WorkDay:** one digit, the values lie in the range of “0” to “9”.

The following table contains the descriptions of each value:

Value	Corresponding day
0	Sunday
1	Monday
2	Tuesday
3	Wednesday
4	Thursday
5	Friday
6	Saturday
7	Everyday
8	Monday to Friday
9	Monday to Saturday

- **StartTime and EndTime:** Be consists of 4 digits (hh:mm) and works on a 24 hour clock. For example: 0000 means time 00:00(hh:mm), 2359 means time 23:59(hh:mm). The StartTime and EndTime should be in the same day, and the EndTime must be later than StartTime.
- **IntervalTime:** This consists of 2 or 3 digits and has values in the range of “10” to “480” minutes.

J Successful SMS reply

Set timing to send MMS parameter is:*****

4.4.3 Disable timing send MMS image

I Method

The user sends following SMS message in order to:

Disable timing send MMS image: #115#0# (27)

J Successful SMS reply

Set timing to send MMS de-activated.

4.5 Remote control

4.5.1 Add remote control(s) to the camera

& Description

When a remote control is added to one camera, it can control the camera. A camera can be added up to 5 remote controls.

I Method

Indicator	Operations	Status
Green, flashing or constantly light.	1. Press and hold the Set key for 2 seconds	Indicator light turns to orange (Learning mode)
Orange, flashing	2. Press any button on the remote control (with battery inside) to send a signal to TUTA camera.	TUTA camera will emit a “Beep” tone and indicator will turn green for 2S. (Added successfully.)
Orange, flashing	3. Repeat step2 to load another new remote camera.	
Orange, flashing	4. Press the Set key to exit the learning mode or waiting for 15 seconds to auto-exit.	Indicator light turns green, flashing or constantly light. (Exit learning mode)


% Note

During the process of learning new remote control, if the battery of remote control runs out, TUTA camera will emit three “Beep...” tones and exit learning mode. You need to replace the battery and try learning process again.


4.5.2 Remote control instruction

There are three buttons on the remote control:



A. Arm TUTA camera

- When  is pressed, the indicator light on TUTA camera will turn green. This indicates that TUTA camera is in armed mode.
- Any motion detected by TUTA camera as well as any activation of added wireless detector will trigger the camera alarm and a SMS/MMS or phone calling notification will be sent to the preset numbers.

B. Disarm TUTA camera

- When  is pressed, the indicator light on TUTA camera will slowly flash green. This indicates that TUTA camera is in disarmed mode.
- TUTA camera will not detect any motion or receive sensor alarm signal.

C. Emergency button

- When  is pressed, the indicator light on TUTA camera will rapidly flash green. Then TUTA camera will dial the master user's number. Live audio stream can be heard upon answering the emergency call.
- If the master user does not answer the call, TUTA camera will then dial the other emergency numbers as preset order, until someone answers the call.
- The master user's number as well as the emergency numbers will be called a maximum three times. If it is still no one answers the call, TUTA camera will then exit dialing mode automatically.
- When  is pressed, TUTA camera could send a notification via SMS and MMS instead of making phone calls. This all depends on the setting. Refer to 4.6 Emergency alarms.

4.5.3 Arming or disarming SMS notification

Authority: **Master** and **family** users.

I Method

The user sends following SMS message in order to set:

- No SMS notification message upon arming or disarming TUTA camera via remote control:** #137#0# (28)
- Send SMS notification message upon arming or disarming TUTA camera via remote control:** #137#1# (29)

4.5.4 Remove remote control from the camera

Authority: **Master** and **family** users.

I Method

The user sends following SMS message in order to:

- Remove all remote controls from the camera:** #111# (30)


J Successful SMS reply

All remote control deleted successfully.

4.6 Emergency alarms

Authority: **Master** and **family** users.

& Description

When the wireless panic button or  button on the remote camera is pressed, TUTA camera will go into emergency mode to alarm. The wireless panic button and remote control need to be loaded onto TUTA camera before use. (Refer to chapter 4.10.1 and 4.5.1 for details)

There are two modes of the emergency alarm could be set on the camera:

Emergency Mode1 (Default): To dial the **master** user's number as well as the pre-set emergency numbers. When the emergency button is pressed on the remote control, TUTA camera will dial the **master** user's number as well as the pre-set emergency numbers. TUTA camera will repeat this process 3 times, until someone answers. If, after 3 attempts, there is no answer, TUTA camera will automatically stop dialing and revert to its preset mode. In the case of someone answers, he/she will be able to listen in the live audio.

Emergency Mode2: To send a notification via SMS and MMS to the **master** user as well as the pre-set emergency numbers. When the emergency button is pressed on the remote control, TUTA camera will send the notification via SMS and MMS to the **master** user as well as the pre-set emergency numbers.

I Method

The user sends following SMS message in order to set:

Emergency Mode1 (To dial the **master** user's number as well as the pre-set emergency numbers): #39#0# (31)

Emergency Mode2 (To send a notification via SMS and MMS to the **master** user as well as the pre-set emergency numbers): #39#1# (32)

J Successful SMS reply

Alarm by dialing emergency number has been set successfully.

Alarm by sending SMS and MMS has been set successfully.

4.7 Listen in live voice

4.7.1 Call the camera to listen in

Authority: **Master** and **family** users.

I Method

The user calls TUTA camera after which it will answer automatically. The user can then listen in the live audio in the monitoring area. Only one line can be connected to TUTA camera at a time.

4.7.2 Listening in upon emergency alarm

& Description

- When TUTA camera is in arm or disarm status, it will automatically dial the Master user's phone number if the emergency button is pressed. The Master user can listen in by answering the call.
- If the **Master** user does not answer the call, TUTA camera will automatically dial the other emergency numbers sequentially. This notification process will repeat three times and if still unanswered, TUTA camera will automatically exit the dialing mode.

4.7.3 Listening in upon automatically alarm

& Description

- When TUTA camera is in armed status and if the user preset the auto-alarm way as calling the user (Refer to chapter 5.2.8 Call notification upon alarm for the details of preset alarm) a call will automatically go through to the **Master** user's preset numbers when the camera alarms. The user can listen in the monitoring area by answering the call.
- If the **Master** user does not answer the call, TUTA camera will dial the other pre-set **Family** number until the call is answered. This notification process will be repeated three times and if still unanswered, TUTA camera will automatically exit the dialing mode.

4.8 Infrared body detector

Authority: **Master** and **family** users.

& Description

When TUTA camera is working under arming mode, if someone approaches to the detecting area, the built-in infrared body detector will trigger the camera alarm.

I Method

The user sends following SMS message in order to:

Activate infrared body detector (default): #118#1# **(33)**

Deactivate infrared body detector: #118#0# **(34)**

J Successful SMS reply

Infrared body detector activated.

Infrared body detector deactivated.

- When the infrared body detection alarms, the notification pictures will be sent on one message via MMS. The default quality of individual picture is 5 and the size is 320×240 pixels. In order to change the setting, see chapter 5.1.1 Image size and chapter 5.1.2 Image quantity when alarm.

% Note

When the camera is operating on low battery, the infrared body detector will be deactivated and the configure setting can not be saved.

4.9 Motion detection

& Description

- The motion detection feature is based on image frame compare technology. The firmware will compare front and after images which capture from camera and therefore detect motion.
- The motion detection feature only functions when TUTA camera is armed. i.e., arming TUTA camera enables the motion.
- The motion detection feature is also functional when TUTA camera is in its default setting.
- When the motion detection alarms, the notification pictures will be sent on one message via MMS. The default quality of individual picture is 5 and the size is 320×240 pixels. In order to change the setting, see chapter 5.1.1 Image size and chapter 5.1.2 Image quantity when alarm.

% Note

- If TUTA camera faces an object that moves constantly, such as a tree shaking in the wind, it will send alarm message constantly. Recommend to use the camera in a still place.
- Low battery: The motion detection function will be deactivated and the configure setting can not be saved when TUTA camera is operating in low

battery.

4.9.1 Activate/Deactivate motion detection

Authority: **Master** and **family** users.

I Method

The user sends following SMS message in order to:

Deactivate motion detection(default setting): #22#0# (35)

Activate motion detection: #22#1# (36)

J Successful SMS reply

Motion detection de-activated.

Motion detection activated.

4.9.2 Send five Images upon motion detection alarm

Authority: **Master** and **family** users.

& Description

TUTA camera will send out 5 images with fixed size of 160×128 pixels when motion is detected.

I Method

The user sends following SMS message:

Send five images upon motion detection alarm: #142#1# (37)

Cancel send five images of motion detection alarm: #142#0# (38)

4.10 Wireless sensor(s)

Authority: **Master** and **family** users.

& Description

Any 433MHz wireless sensor, such as infrared body sensor, wireless door magnet, wireless smoke detector etc. can be set as an alarm sensor of the camera.

4.10.1 Load a wireless sensor or panic button onto the camera

Authority: **Master** and **family** users.

& Description

- Up to 15 wireless sensors and wireless panic buttons can be loaded onto one TUTA camera.

I Method

1. Power on the wireless sensor.
2. The user sends following SMS message to:

Make TUTA camera enter sensor loading mode and set corresponding alarm mode: #05#**SensorDescription**# (39)

Make TUTA camera enter loading “wireless panic button” mode:
#196#**PanicDescription**# (39A)

- **SensorDescription** and **PanicDescription** is used for identify different sensors affiliated with each camera. It can be numbers and letters.
- **SensorDescription** could be empty. If SMS command is only #05#, TUTA camera will recognize the sensors in number order been added to the camera. For example, Sensor1, Sensor2, Sensor3. When a sensor triggers TUTA camera alarm, TUTA camera will default send out SMS alarm message only.
- **PanicDescription** could be empty. If SMS command is only #196#, TUTA camera will recognize the panic button in number order been added to the camera. For example, SOS1, SOS2, SOS3. When a wireless panic button triggers TUTA camera alarm, TUTA camera will send out emergency alarm (Refer to chapter 4.6 Emergency Alarms).
- Up to 9 characters can be typed in the **SensorDescription** and **PanicDescription**.

Set the sensor alarm mode:

- If you add * at front of **SensorDescription**, TUTA camera will send out MMS and SMS alarm message.
E.g. #05#*door2# when “door2” sensor triggers TUTA camera alarm, TUTA camera will send out SMS and MMS alarm messages.
- Otherwise, if the first character of **SensorDescription** without *, TUTA camera will send via SMS only.
E.g. #05#door1# when “door1” sensor triggers TUTA camera alarm,

TUTA camera will send out SMS alarm message only.

- If the sensor is set “send alarm via SMS only when it alarm” by this command successfully, the user can not use command 64, 65, 66 and 67 to change alarm way of the sensor.
3. When TUTA camera has received the SMS command, it will emit a “Beep...” tone and the indicator will flash red and green alternately. TUTA camera will then send a notification message via SMS to the user(s) stating “Waiting to load wireless sensor, make the sensor work immediately.”
 4. The user needs to make the sensor work and transmit signal to be studied by TUTA camera.
E.g. For a wireless door magnet, open and close the door once to send the signal to the camera.
 5. When TUTA camera receives the sensor signal, it will emit a “Beep...” tone and send a notification message via SMS to the user(s) stating “*** has been successfully loaded”
 6. To exit the loading mode manually, press the **set** key of the camera, TUTA camera will emit a “Beep...” tone and exit the loading mode.

L Failed SMS reply

- If TUTA camera failed to load the sensor, the indicator light on TUTA camera will flash red and green alternately for approximately 60 seconds, TUTA camera will revert back to the preset armed/disarmed mode.
- When the maximum amount of sensors is already loaded, if a user attempts to load one more sensor onto the camera, TUTA camera will send a SMS message “Sensor list is full. Please delete old sensor at first.”
- TUTA camera will emit “Beep, Beep...” tone if the user want to load an existed sensor which has been loaded onto TUTA camera.

4.10.2 Remove wireless sensor

Authority: **Master** and **family** users.

I Method

The user sends following SMS message in order to:

Remove a wireless sensor: (40)

#112#**SensorDescription**#...#**SensorDescription**#

- **Sensor description** should be the existing sensor which the user wants to remove.

Remove all wireless sensors: #112# (41)

J Successful SMS reply

Sensor deleted successfully ****

4.11 Arming or disarming TUTA camera manually

4.11.1 Arming TUTA camera manually

Authority: **Master** and **family** users.

& Description

- When TUTA camera is arming, it can be triggered by all loaded sensors, built-in infrared body detector and motion detector. TUTA camera will automatically send alarm message or making a phone call once it is triggered.
- Once TUTA camera alarms automatically, after it finish sending the alarm message, it will be at the alarm-suspension situation for default 1 minute, that is, the camera can not be triggered again within a period time (How to change alarm-suspension time period? Refer to chapter 5.2.11 for more details).


I Method

Method 1:

The user sends following SMS message in order to:

Arming TUTA camera manually: #01# **(42)**

Method 2:

Press  on the remote control, whilst pointing it in the direction of TUTA camera. TUTA camera will emit a “Beep” tone, to indicate that arming TUTA camera is successfully.

4.11.2 Default arming mode


- In this mode, the infrared light will be on.
- When motion is detected, a notification will be sent via SMS to preset user numbers. Five notification pictures will be sent on one message via MMS. MMS image quality is 320×240(QVGA).
- When the integrated infrared body detector and loaded wireless sensor alarms TUTA camera, a notification will be sent via SMS to preset user numbers. Five notification pictures will be sent on one message via MMS. MMS image size is 320×240(QVGA).

4.11.3 Disarming TUTA camera manually

Authority: **Master** and **family** users.

& Description

When TUTA camera is working under disarmed mode, all loaded wireless sensor, integrated infrared body detector and motion detection function could not work.

But it will send an SMS/MMS notification or make phone calls only when  button on remote control is pressed.


I Method

Method 1:

The user sends following SMS message in order to:

Disarming TUTA camera manually: #02# (43)

Method 2:

- Slide antenna out the remote control.
- Press the  button on the remote control, whilst pointing it in the direction of the camera.

4.12 Timed arming the camera

Authority: **Master** and **family** users.

4.12.1 Enable timing arms the camera

I Method

The user sends following SMS message in order to:

Enable timing arms the camera: #128#1# (44)

J Successful SMS reply

Timing defense activated.

Then TUTA camera will arming automatically according to the settings.

4.12.2 Set time period to arm the camera

I Method

The user sends following SMS message in order to:

Set time period to arm the camera: (45)
#129#*WorkDay*#*ArmTime1*#*DisarmTime1*#...#*ArmTime3*#*DisarmTime3*#

- Up to 3 periods be allowed per workday. Each period time should set by **ArmTime**, **DisarmTime**.
- WorkDay**: one digit, the values lie in the range of “0” to “9”.

The following table contains the descriptions of each value:

Value	Corresponding day
0	Sunday
1	Monday
2	Tuesday
3	Wednesday
4	Thursday
5	Friday
6	Saturday
7	Everyday
8	Monday to Friday
9	Monday to Saturday

- ArmTime and DisarmTime**: Be consists of 4 digits (hh:mm) and works on a 24 hour clock. For example: 0000 means time 00:00(hh:mm), 2359 means time 23:59(hh:mm). The ArmTime and DisarmTime should be in the same day, and the DisarmTime must be later than ArmTime during the same period.

J Successful SMS reply

Set timing defense successfully, the parameter is:*****

4.12.3 Disable timing arm the camera

I Method

The user sends following SMS message in order to:

Disable timing arm the camera: #128#0# (46)

J Successful SMS reply

Timing defense de-activated.

4.13 Auto-disarming the camera

& Description

In order to avoid TUTA camera sending out alarm message all the time and out of **Master**'s attention, TUTA camera can be set auto-disarm when it has been sent out alarms certain times (At least one alarm message should be sent via MMS). After the user set this function successfully, any alarm of TUTA camera

will be counted in alarm times. When the user arms/disarms TUTA camera manually, the counted alarm time will be cleared to 0.

4.13.1 Activate auto-disarming the camera

Authority: **Master** and **family** users.

Method

The user sends following SMS message in order to:

Activate auto-disarming the camera: #138#1# (47)

Set the value of alarm times when TUTA camera is auto-disarming: (48)
#139#*times*#

- The **times** should be numbers.

J Successful SMS reply

- Cancel defense after warn some times activate.
- Cancel defense after warn ** times.
- When the alarm times reach to the times value setting, TUTA camera will be auto-disarmed and send SMS message” The device has been auto-disarmed.”

4.13.2 Disable the function of auto-disarming TUTA camera (default)

Authority: **Master** and **family** users.

Method

The user sends following SMS message in order to:

Disable the function of auto-disarming the camera: #138#0# (49)

J Successful SMS reply

Cancel defense after warn some times deactive.

4.14 Camera language setting

Authority: **Master** user.

& Description

TUTA camera supports both English and Spanish (or the user's first language) display.

Method

The user sends following SMS message in order to set:

The user's first language (or Spanish) version: #127#0# **(50)**

English version: #127#1# **(51)**

J Successful SMS reply

Set *** version successfully.

4.15 Check status

Authority: **Master, family** and **guest** users.

I Method

The user sends following SMS message in order to:

Check the present settings and work status of TUTA camera:

- For **master** and **family** users: #07# **(52)**

- For **guest** users: #07#**password**# **(53)**

J Successful SMS reply

- TUTA camera will reply via MMS, depending on which status is currently set on.

Such as:

Device (dis)armed.(No) SMS notification when alarm is triggered.(No) MMS notification when alarm is triggered.Motion detection (de)activated.Timing send MMS (de)activated.Infrared light on(off).Image size 160x128/ 320x240/ 640x480.Send image quantity when alarm. Master number. Master email. Family email. Wireless sensor. Emergency number. Language version.

4.16 Getting help

Authority: **Master, family** and **guest** user.

& Description

The user can send SMS to TUTA camera in order to get the SMS command list which the command description as well as the codes will be supplied or get the MMS named "TUTA user manual" on which all the command descriptions as well as the codes will be supplied. The list and the manual's contents can be view via the user's mobile phone.

I Method

The user sends following SMS message in order to:

Getting normal command list via SMS:

- For **master** and **family** users: #09# (54)

- For **guest** users: #09#password# (55)

Getting detailed instruction via MMS:

- For **master** and **family** users: #09#1# (56)

- For **guest** users: #09#password#1# (57)

4.17 Resetting the camera

Authority: **Master** user.

& Description

- This function resets all programmed settings to their original values.
- After TUTA camera is reset, it will need to be restarted. The remote control as well as the wireless sensor will also need to be reloaded. Refer to chapter 3.2 Define Master user to start the camera.
- After resetting the camera. However, if the MMS function does not work, the MMS parameter will need to be reset. Refer to chapter 4.1 Network parameter settings.

% Note

This function needs to be used carefully as it also erases the values for the **master** number, the remote control as well as the wireless sensor(s).

I Method

Method 1: Reset via the camera

- Switch TUTA camera off. It must remain off for a minimum of 20 seconds.
- Press and hold the **set** button and then switch TUTA camera back on.
- The indicator light will be green for 2-4 seconds after which it will flash red.
- If the resetting of TUTA camera is successful, a “Beep ...” tone will be emitted.

Method 2: Reset via SMS command

The user sends following SMS message to TUTA camera in order to:

Reset the camera: #08#password# (58)

J Successful SMS reply

The GSM camera has successfully reset to its default settings.

Chapter 5 Advanced settings

5.1 Image settings

The user sends the following edit message via SMS to TUTA camera in order to configure the following settings:

5.1.1 Image size

- For **master** and **family** users: #32#value# (59)
- If the **value** is 1, the image size is 160 × 128(pixels). It's for a standard small screen mobile phone. The size of one MMS image file is 4K.
- If the **value** is 2, the image size is 320×240(QVGA default). The size of one MMS image file is 9K.
- If the **value** is 3, the image size is 640 × 480 (VGA). The size of one MMS image file is 33K.

J Successful SMS reply

The image size has been reset successfully.

5.1.2 Image quantity

- For **master** and **family** users: #33#quantity# (60)
- The default **quantity** value is 3, with the default image size 320×240 and the Image capturing interval time 0.5s.
- The **quantity** value should be in the range of 2-8.
- If the image size is 640×480, up to 2 image quantity can be used.
- The image size and image capturing interval time can be changed, see chapter 5.1.1 and 5.1.3.

J Successful SMS reply

Alarm image quantity has been set successfully.

MMS file name:

- For wireless sensor alarm: Model-Time (Sensor name), such as TUTA-171154(Sensor 1).
- For motion detection alarm: Model-Time (Motion detection), such as TUTA-171154 (motion detection).

5.1.3 Image interval

- For **master** and **family** users: #103#*time*# (61)
- The Interval ***time*** values should be in the range from 3-10.
- Each unit constitutes 100ms.
- The default value is 5, i.e. 0.5 seconds.

J Successful SMS reply

Capture image interval time has been set successfully: *

5.2 Automatic alarm settings

& Description

TUTA camera will enter auto-alarm mode and send notification messages (SMS and/or MMS) to the previously set numbers or e-mail addresses in one of the following two circumstances:

- When motion is detected or
- when the wireless sensors are triggered.

The user sends the following edit message via SMS to TUTA camera in order to activate the following functions:

5.2.1 Warning tone upon alarm triggering

- For **master** and **family** users: #130#1# (62)

J Successful SMS reply

Warn sound mode activated.

TUTA camera will emit a “Beep ...” tone upon alarm activation.

5.2.2 No warning tone upon alarm (Default)

- For **master** and **family** users: #130#0# (63)

J Successful SMS reply

Warn sound mode de-activated.

TUTA camera will not emit any tone upon alarm activation.

5.2.3 No SMS notification upon alarm

- For **master** and **family** users: #11#0# (64)

J Successful SMS reply

No send SMS when alarm

5.2.4 SMS notification upon alarm (Default)

- For **master** and **family** users: #11#1# (65)

J Successful SMS reply

Set alarm with SMS successfully

5.2.5 No MMS notification upon alarm

- For **master** and **family** users: #12#0# (66)

J Successful SMS reply

Set alarm without MMS successfully, alarm with SMS only

5.2.6 MMS notification upon alarm (Default)

- For **master** and **family** users: #12#1# (67)

J Successful SMS reply

Set alarm with MMS successfully.

5.2.7 No call notification upon alarm (Default)

- For **master** and **family** users: #13#0# (68)

J Successful SMS reply

Didn't auto dial calls when alarm.

5.2.8 Call notification upon alarm

- For **master** and **family** users: #13#1# (69)

J Successful SMS reply

Auto dial calls when alarm.

- If TUTA camera alarm automatically, it will dial the master user's number. Live audio stream can be heard upon answering the call.
- If the master user does not answer the call, TUTA camera will then dial the family user's numbers in the preset order, until someone answers the call.
- The master user's and the family user's numbers will be called a maximum

three times. If it is still no one answers the call, TUTA camera will then exit dialing mode automatically.

- If SMS, MMS and calling notification are all activated, when TUTA camera alarm automatically, it will firstly send an SMS, secondly an MMS and thirdly a calling notification to preset users.

5.2.9 No MMS notification to pre-set E-mail address (Default)

- For **master** and **family** users: #110#0# (70)

J Successful SMS reply

Alarm didn't send MMS images to email

5.2.10 MMS notification to pre-set E-mail address

- For **master** and **family** users: #110#1# (71)

J Successful SMS reply

Alarm set with MMS notification to an E-mail address successfully.

- If the MMS notifications is set to be send to both a mobile phone number as well as to an e-mail address, the MMS image will firstly be sent to the mobile phone number and then to the E-mail address.

5.2.11 The alarm-suspension time between two alarms

Once TUTA camera alarms automatically, after it finish sending the alarm message, it will be at the alarm-suspension situation for a period time, that is, the camera can not be triggered again within a period time.

The user sends following SMS message to TUTA camera in order to set:

The alarm-suspension time between two alarms: #151#*Minutes*# (72)

- The ***Minutes*** values should be in the range from 0-10 minute(s). 0 means no alarm-suspension between two alarms.
- ***Minutes*** value is default 1 minute.

5.3 Turn on/off LED indicator on the camera

Authority: **Master**, **family** user.

& Description

If the LED indicator is on, it will display in different ways to show the working status. If it turns off, it can make TUTA camera private and avoid to be found easily.

I Method

The user sends following SMS message in order to:

Turn off indicator: #143#0# (73)

Turn on indicator: #143#1# (74)

J Successful SMS reply

Status LED close.

Status LED open.

5.4 SMS notification upon the power supply changing

Authority: **Master** and **family** user.

I Method

The user sends following SMS message in order to set:

SMS notification upon the power supply changing (Default): #144#1# (75)

No SMS notification upon the power supply changing: #144#0# (76)

J Successful SMS reply

(Not) Send SMS notification when power supply changed.

Chapter 6 Maintenance

- Store and use the remote camera in suitable temperature. Too high or too low temperature will likely to damage the camera.
- Try to keep the TUTA camera and all its accessories dry. Do not store and use it in the bathroom, or other place with high humidity. Do not allow pour water or other liquids into the camera, otherwise, it might cause malfunctions.
- Do not store and use the camera in dusty.
- Do not use alcohol, acetone and other similar solvents to clean it. Wipe it with soft-wet cloth.
- Do not attempt to open it except as instructed. If the camera does not work normally, try to resolve it as the guide of the "general troubleshooting", if to the problem can not be solved, contact with the dealer immediately.
- To prolong the life-span of the battery, connect the camera TUTA camera to the

power supply to charge the built-in Lithium battery for 4 hours every 3 months if the camera does not use for long time. Charge the battery at least 12 hours at the first time use to achieve the full performance of the battery.

Chapter 7 General troubleshooting

No.	General Trouble	Possible Reason	Solution
1	Can't start camera (Indicator is working)	Other master is already set in the camera.	Recover to factory default setting.
2	All functions disable (Indicator is working)	Caller ID presentation or MMS functions of the SIM card do not active, insufficient fee of the SIM card.	Contact network provider to active SIM card function. Pay for the card.
3	Indicator constant light in red color.	Can't find or identify the SIM card.	SIM card no install properly: Power off the camera and check it again.
4	Camera didn't response of any operation.	TUTA camera work abnormally.	Switch off the power, check SIM card, or reset factory setting.
5	After starting the camera, indicator flashed in red color and can not turn to green.	Network signal weak or network busy.	Place the camera at other place with strong signal and try again.
		SIM card PIN code actives.	Close the PIN code.
		SIM card invalid.	Contact with local operator to check of it.
6	Remote control can't work. Or action slowly. Or control distance range shortened.	Camera low power.	Connect external power to recharge the battery.
		Remote control low power.	Change remote control battery.
		Didn't pull out the antenna.	Pull out remote control antenna.
		Two remote control work simultaneously.	Try only one remote control.
7	Can't add new remote control or wireless sensor	The remote control or sensor already studies successfully.	Exit the loading status.
		The sensor quantity is already reaches its max number.	Delete old sensors before add new sensor.
		Didn't set master user number	Set master number before add sensor.
8	Can't start the camera	Battery runs out of power.	Connect the camera to

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No.	General Trouble	Possible Reason	Solution
	after long time supply with the battery.		external AC power and charge for at least one hour, then, restart camera.

Note: If the problem can't be solved with above guidelines, contact to your local distributor or after service center.

Chapter 8 Main technical parameters

Power adaptor	Input: 100V~240V/50Hz Output: 5.5V DC
Work temperature	-10℃~+45℃
Store temperature	-20℃~+60℃
Relative humidity	10-90%, without condensation
Working band	EGSM900, DCS1800 (GSM850, PCS1900 Optional)
Communication protocols	GSM PHASE 2/2+ (including data operation)
Wireless sensor receiving code	ASK
Wireless sensor receiving band	433MHz
Max wireless sensor	15 units
Remote control receiving band	433MHz
Effective distant of the remote control	10 meters (wide area)
Image format	JPEG
Image resolution	160×128, QVGA320×240, VGA640×480
Camera pixel	300K pixel
Camera shooting angel	68 degree
Best shooting distance at night	≤6 meters
Lithium battery (Inner)	800mAh
Battery standby time	12 hours (Affected by network)

Appendix: SMS commands list

Category	Function	Command	User
Define the user	Add a master number to the camera	(1) <u>#00#+CountryCodeSIMNumber#</u>	Master
	Change the master user's number	(2) <u>#14#NewMasterNumber#</u>	Master
	Change the password	(3) <u>#04#oldpassword#newpassword#</u>	Master
	Add a family number	(4) <u>#06#FamilyNumber#</u>	Master
	Add several family numbers	(5) <u>#06#FamilyNumber#...#FamilyNumber#</u>	Master
	Delete a family number	(6) <u>#113#FamilyNumber#</u>	Master

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Category	Function	Command	User
	Delete several family numbers simultaneously	(7) <u>#113#FamilyNumber#...#FamilyNumber#</u>	Master
	Delete all family numbers	(8) <u>#113#</u>	Master
	Add single emergency number on the camera	(9) <u>#106#EmergencyNumber#</u>	Master
	Add several emergency numbers on the camera	(10) <u>#106#EmergencyNumber#...#EmergencyNumber#</u>	Master
	Delete an emergency number	(11) <u>#107#EmergencyNumber#</u>	Master
	Delete several emergency numbers	(12) <u>#107#EmergencyNumber#...#EmergencyNumber#</u>	Master
	Delete all emergency numbers	(13) <u>#107#</u>	Master
Network parameter settings	Set MMS center	(14) <u>#124#MMScenter#</u>	Master
	Set APN parameters	(15) <u>#125#GatewayIP#WAPGatewayPort#HTT PGatewayPort#APN#APNusername#APNpass word#</u>	Master
capture images	Capture one image and send to the user mobile	(16) <u>#03#</u>	Master Family
		(17) <u>#03#password#</u>	Guest
	Capture more than one image and send to the user mobile	(18) <u>#03#ImageQuantity#</u>	Master Family
		(19) <u>#03#Password#ImageQuantity#</u>	Guest
	Capture image(s) and send back to user's pre-set E-mail address	(20) <u>#03#ImageQuantity#1#</u>	Master Family
	Capture image(s) and send to appointed mobile or E-mail address	(21) <u>#30#NumberOrEmail#ImageQuantity#</u>	Master Family
		(22) <u>#30#Password#NumberOrEmail#ImageQuantity#</u>	Guest
E-mail settings	Add/modify an E-mail address	(23) <u>#108#EmailAddress#</u>	Master Family
	Delete all E-mail address	(24) <u>#109#</u>	Master
Timed imaging	Enable timing sends MMS images	(25) <u>#115#1#</u>	Master
	Set time period to auto-send MMS image	(26) <u>#116#WorkDay#StartTime1#EndTime1#IntervalTime1#...#StartTime3#EndTime3#IntervalTime3#</u>	Master
	Disable timing send MMS image	(27) <u>#115#0#</u>	Master
Remote control	No SMS notification message upon arming or	(28) <u>#137#0#</u>	Master Family

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Category	Function	Command	User
	disarming TUTA camera via remote control		
	Send SMS notification message upon arming or disarming TUTA camera via remote control	(29) <u>#137#1#</u>	Master Family
	Remove all remote controls from the camera	(30) <u>#111#</u>	Master Family
Emergency alarm	Emergency Mode1(to dial)	(31) <u>#39#0#</u>	Master Family
	Emergency Mode2(to send SMS and MMS message)	(32) <u>#39#1#</u>	Master Family
infrared body detector	Activate infrared body detector (default)	(33) <u>#118#1#</u>	Master Family
	Deactivate infrared body detector	(34) <u>#118#0#</u>	Master Family
Motion detection	Deactivate motion detection(default)	(35) <u>#22#0#</u>	Master Family
	Activate motion detection	(36) <u>#22#1#</u>	Master Family
	Send five images upon motion detection alarm	(37) <u>#142#1#</u>	Master Family
	Cancel send five images of motion detection alarm	(38) <u>#142#0#</u>	Master Family
wireless sensor	Make TUTA camera enter loading mode and set corresponding alarm mode	(39) <u>#05#SensorDescription#</u>	Master Family
	Make TUTA camera enter loading “wireless panic button” mode	(39A) <u>#196#PanicDescription#</u>	Master Family
	Remove a wireless sensor	(40) <u>#112#SensorDescription#...#SensorDescription#</u>	Master Family
	Remove all wireless sensors	(41) <u>#112#</u>	Master Family
Arming or disarming TUTA camera	Arming TUTA camera manually	(42) <u>#01#</u>	Master Family
	Disarming TUTA camera manually	(43) <u>#02#</u>	Master Family
	Enable timing arms the camera	(44) <u>#128#1#</u>	Master Family
	Set time period to arm the camera	(45) <u>#129#WorkDay#ArmTime1#DisarmTime1#...#ArmTime3#DisarmTime3#</u>	Master Family

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Category	Function	Command	User
	Disable timing arm the camera	(46) <u>#128#0#</u>	Master Family
	Activate auto-disarming the camera	(47) <u>#138#1#</u>	Master Family
	Set the value of alarm times when TUTA camera is auto-disarming	(48) <u>#139#times#</u>	Master Family
	Disable the function of auto-disarming the camera	(49) <u>#138#0#</u>	Master Family
language setting	The user's first language (or Spanish) version	(50) <u>#127#0#</u>	Master
	English version	(51) <u>#127#1#</u>	Master
Check status	Check the present settings and work status of the camera	(52) <u>#07#</u>	Master Family
		(53) <u>#07#password#</u>	Guest
Getting help	Getting normal command list via SMS	(54) <u>#09#</u>	Master Family
		(55) <u>#09#password#</u>	Guest
	Getting detailed instruction via MMS	(56) <u>#09#1#</u>	Master Family
		(57) <u>#09#password#1#</u>	Guest
Reset	Reset the camera	(58) <u>#08#password#</u>	Master
Image settings	Image size	(59) <u>#32#value#</u>	Master Family
	Image quantity	(60) <u>#33#quantity#</u>	Master Family
	Image Interval	(61) <u>#103#time#</u>	Master Family
Automatic alarm settings	Warning tone upon alarm triggering	(62) <u>#130#1#</u>	Master Family
	No warning tone upon alarm (Default)	(63) <u>#130#0#</u>	Master Family
	No SMS notification upon alarm	(64) <u>#11#0#</u>	Master Family
	SMS notification upon alarm (Default)	(65) <u>#11#1#</u>	Master Family
	No MMS notification upon alarm	(66) <u>#12#0#</u>	Master Family
	MMS notification upon alarm (Default)	(67) <u>#12#1#</u>	Master Family
	No call notification upon alarm (Default)	(68) <u>#13#0#</u>	Master Family

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Category	Function	Command	User
	Call notification upon alarm	(69) <u>#13#1#</u>	Master Family
	No MMS notification to pre-set E-mail address (Default)	(70) <u>#110#0#</u>	Master Family
	MMS notification to pre-set E-mail address	(71) <u>#110#1#</u>	Master Family
	The alarm-suspension time between two alarms	(72) <u>#151#Minutes#</u>	Master Family
Lights	Turn off indicator	(73) <u>#143#0#</u>	Master Family
	Turn on indicator	(74) <u>#143#1#</u>	Master Family
SMS notification and reply	SMS notification upon the power supply changing (Default)	(75) <u>#144#1#</u>	Master Family
	No SMS notification upon the power supply changing	(76) <u>#144#0#</u>	Master Family



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